**Volume of Compound Figures Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Example 1:**

****

**Step 1:** “Cut” into rectangular prisms.

**B**

**A**

**Step 2:** Find the measurements and volume of each rectangular prism.

Volume of Prism A:

Volume of Prism B:

**Step 3:** Add the volumes of the rectangular prisms.

Volume of the Compound Figure =

**Example 2:**

****

**Step 1:** “Cut” into rectangular prisms.

**A**

**B**

**C**

**Step 2:** Find the measurements and volume of each rectangular prism.

Volume of Prism A:

Volume of Prism B:

Volume of Prism C:

**Step 3:** Add the volumes of the rectangular prisms.

Volume of the Compound Figure =

**Example 3:**



**Step 1:** “Cut” into rectangular prisms.

**A**

**B**

**Step 2:** Find the measurements and volume of each rectangular prism.

Volume of Prism A:

Volume of Prism B:

**Step 3:** Add the volumes of the rectangular prisms.

Volume of the Compound Figure =

**Example 4:**



**Step 1:** “Cut” into rectangular prisms.

**A**

**B**

**C**

**Step 2:** Find the measurements and volumes of all rectangular prisms.

Volume of Prism A:

Volume of Prism B:

Volume of Prism C:

**Step 3:** Add the volumes of all rectangular prisms.

Volume of the Compound Figure =

**Volume of Compound Figures - KEY**

**Example 1:**

****

**Step 1:** “Cut” into rectangular prisms.

**A**

**B**

**Step 2:** Find the measurements and volume of each rectangular prism.

Volume of Prism A: $5×5×2=50 $**cubic cm**

Volume of Prism B: $5×5×1=25$ **cubic cm**

**Step 3:** Add the volumes of the rectangular prisms.

Volume of the Compound Figure: **50 + 25 = 75 cubic cm**

**Example 2:**

****

**Step 1:** “Cut” into rectangular prisms.

**A**

**B**

**C**

**Step 2:** Find the measurements and volume of each rectangular prism.

Volume of Prism A: $4×3×5=60$ **cubic cm**

Volume of Prism B: $4×1×5=20$ **cubic cm**

Volume of Prism C: $3×1×5$ **= 15 cubic cm**

**Step 3:** Add the volumes of the rectangular prisms.

Volume of the Compound Figure: **60 + 20 + 15 = 95 cubic cm**

**Example 3:**



**Step 1:** “Cut” into rectangular prisms.

**A**

**B**

**Step 2:** Find the measurements and volume of each rectangular prism.

Volume of Prism A: **36 × 8 × 40 = 11,520 cubic in**

Volume of Prism B: **36 × 30 × 40 = 43,200 cubic in**

**Step 3:** Add the volumes of the rectangular prisms.

Volume of the Compound Figure: **11,520 + 43,200 = 54,720 cubic in**

**Example 4:**



**Step 1:** “Cut” into rectangular prisms.

**A**

**B**

**C**

**Step 2:** Find the measurements and volumes of all rectangular prisms.

Volume of Prism A: $5 ×3 ×1=15$ **cubic ft**

Volume of Prism B: $5 ×4 ×3=60$ **cubic ft**

Volume of Prism C: $7 ×3 ×2=42$ **cubic ft**

**Step 3:** Add the volumes of all rectangular prisms.

Volume of the Compound Figure: $15+60+42=117$ **cubic feet**